

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING**

### **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/658,617  
Source: JFW16  
Date Processed by STIC: 10/13/2005

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/658,617

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1    **Wrapped Nucleics** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2    **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3    **Misaligned Amino Numbering** The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4    **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5    **Variable Length** Sequence(s)        contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6    **PatentIn 2.0 "bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)       . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7    **Skipped Sequences (OLD RULES)** Sequence(s)        missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8    **Skipped Sequences (NEW RULES)** Sequence(s)        missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9    **Use of n's or Xaa's (NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10    **Invalid <213> Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11    **Use of <220>** Sequence(s)        missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12    **PatentIn 2.0 "bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13    **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 10/13/2005

PATENT APPLICATION: US/10/658,617

TIME: 10:47:36

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

3 <110> APPLICANT: MITCHELL, Lloyd G.  
 4 OTTO, Edward  
 5 MERRIL, Carl R.  
 7 <120> TITLE OF INVENTION: TRANS-SPLICING MEDIATED PHOTODYNAMIC THERAPY  
 9 <130> FILE REFERENCE: 027705.00026  
 11 <140> CURRENT APPLICATION NUMBER: 10/658,617  
 12 <141> CURRENT FILING DATE: 2003-09-09  
 14 <150> PRIOR APPLICATION NUMBER: 10/374,784  
 15 <151> PRIOR FILING DATE: 2003-02-25  
 17 <150> PRIOR APPLICATION NUMBER: 60/359,948  
 18 <151> PRIOR FILING DATE: 2002-02-25  
 20 <160> NUMBER OF SEQ ID NOS: 21  
 22 <170> SOFTWARE: PatentIn version 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 8  
 26 <212> TYPE: RNA  
 27 <213> ORGANISM: Artificial  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: 5' splice site consensus  
 32 <400> SEQUENCE: 1  
 33 agguragu  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 7  
 38 <212> TYPE: RNA  
 39 <213> ORGANISM: Artificial  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: branchpoint consensus sequence in mammals  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (2)..(2)  
 48 <223> OTHER INFORMATION: n is a, c, g, or u  
 50 <400> SEQUENCE: 2

Does Not Comply  
 Corrected Diskette Needed  
 (pg-3,4)

W--&gt; 51 ynyurac

54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 7  
 56 <212> TYPE: RNA  
 57 <213> ORGANISM: Artificial  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: yeast branchpoint consensus  
 62 <400> SEQUENCE: 3  
 63 uacuaac  
 66 <210> SEQ ID NO: 4  
 67 <211> LENGTH: 7

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Input Set : A:\10658617.txt

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```

68 <212> TYPE: RNA
69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: yeast consensus branchpoint
74 <400> SEQUENCE: 4
75 uacuaac 7
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 8
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial
83 <220> FEATURE:
84 <223> OTHER INFORMATION: GT rich sequences
86 <400> SEQUENCE: 5
87 ygtgttyy 8
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 7
92 <212> TYPE: RNA
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: branchpoint
98 <400> SEQUENCE: 6
99 uacuaac 7
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 29
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial
107 <220> FEATURE:
108 <223> OTHER INFORMATION: specific primer 5'
110 <400> SEQUENCE: 7
111 aagcttttac tgctcgttct tcagcacgc 29
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 20
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Luc-33R
122 <400> SEQUENCE: 8
123 cagggtcgga ctcgatgaac 20
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 21
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Luc-34F
134 <400> SEQUENCE: 9
135 ggatatcgcc ctgatcaaga g 21
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 6
140 <212> TYPE: DNA

```

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Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

141 <213> ORGANISM: Artificial  
 143 <220> FEATURE:  
 144 <223> OTHER INFORMATION: (Fig. 3) functional PTM  
 146 <400> SEQUENCE: 10  
 147 gctagc  
 150 <210> SEQ ID NO: 11  
 151 <211> LENGTH: 6  
 152 <212> TYPE: RNA  
 153 <213> ORGANISM: Artificial  
 155 <220> FEATURE:  
 156 <223> OTHER INFORMATION: (Fig. 3) Functional PTM  
 158 <400> SEQUENCE: 11  
 159 ccgcgg  
 162 <210> SEQ ID NO: 12  
 163 <211> LENGTH: 47  
 164 <212> TYPE: DNA  
 165 <213> ORGANISM: Artificial  
 167 <220> FEATURE:  
 168 <223> OTHER INFORMATION: (Fig. 3) Functional PTM  
 170 <400> SEQUENCE: 12  
 171 tactaactgg tacctcttct tttttttttg atatcctgca gggcggc  
 174 <210> SEQ ID NO: 13  
 175 <211> LENGTH: 6  
 176 <212> TYPE: DNA  
 177 <213> ORGANISM: Artificial  
 179 <220> FEATURE:  
 180 <223> OTHER INFORMATION: (Fig. 7) binding domain  
 182 <400> SEQUENCE: 13  
 183 gctagc  
 186 <210> SEQ ID NO: 14  
 187 <211> LENGTH: 6  
 188 <212> TYPE: RNA  
 189 <213> ORGANISM: Artificial  
 191 <220> FEATURE:  
 192 <223> OTHER INFORMATION: (Fig. 7) binding domain  
 194 <400> SEQUENCE: 14  
 195 ccgcgg  
 198 <210> SEQ ID NO: 15  
 199 <211> LENGTH: 47  
 200 <212> TYPE: DNA  
 201 <213> ORGANISM: Artificial  
 203 <220> FEATURE:  
 204 <223> OTHER INFORMATION: (Fig. 7) branchpoint  
 206 <400> SEQUENCE: 15  
 207 tactaactgg tacctcttct tttttttttg atatcctgca gggcggc  
 210 <210> SEQ ID NO: 16  
 211 <211> LENGTH: 65  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: Artificial

6

6

47

6

47

Invalid Response<sup>47</sup>  
 Pls Explain the  
 Source of Genetic  
 Material! See  
 Item # 11 on Error  
 Summary sheet.

7 Same Error

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/658,617

TIME: 10:47:36

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

215 <220> FEATURE:  
216 <223> OTHER INFORMATION: (Fig. 10) Target and PTM sequence  
218 <400> SEQUENCE: 16  
219 ctctctggcct cgcgagatcc ctctcgtaa gggaggcaag cccgacgtcg tccagattgt 60  
221 ccgca 65  
224 <210> SEQ ID NO: 17  
225 <211> LENGTH: 6  
226 <212> TYPE: DNA  
227 <213> ORGANISM: Artificial  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: (Fig. 12) Luc-PTM13  
232 <400> SEQUENCE: 17  
233 ctgcag 6  
236 <210> SEQ ID NO: 18  
237 <211> LENGTH: 71  
238 <212> TYPE: DNA  
239 <213> ORGANISM: Artificial  
241 <220> FEATURE:  
242 <223> OTHER INFORMATION: (Fig. 15) Luc-PTM1  
244 <400> SEQUENCE: 18  
245 ccgcggaaca ttattataac gttgctcgaa tactaactgg tacctcttct tttttttt 60  
247 atatcctgca g 71  
250 <210> SEQ ID NO: 19  
251 <211> LENGTH: 22  
252 <212> TYPE: DNA  
253 <213> ORGANISM: Artificial  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: (Fig. 15) Luc-PTM TSD  
258 <400> SEQUENCE: 19  
259 ctcgagcacc gatatcgtaa ct 22  
262 <210> SEQ ID NO: 20  
263 <211> LENGTH: 36  
264 <212> TYPE: DNA  
265 <213> ORGANISM: Artificial  
267 <220> FEATURE:  
268 <223> OTHER INFORMATION: (Fig. 25B) Functional 3' ss  
270 <400> SEQUENCE: 20  
271 tactaactct cttctttttt ttttgataac caggct 36  
274 <210> SEQ ID NO: 21  
275 <211> LENGTH: 35  
276 <212> TYPE: DNA  
277 <213> ORGANISM: Artificial  
279 <220> FEATURE:  
280 <223> OTHER INFORMATION: (Fig. 25B) Mutated 3' ss  
282 <400> SEQUENCE: 21  
283 gaacacctca ctacatacat aacagttaac ccgct 35

Same Error

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/658,617

DATE: 10/13/2005  
TIME: 10:47:37

Input Set : A:\10658617.txt  
Output Set: N:\CRF4\10132005\J658617.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 2

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/658,617

DATE: 10/13/2005

TIME: 10:47:37

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0